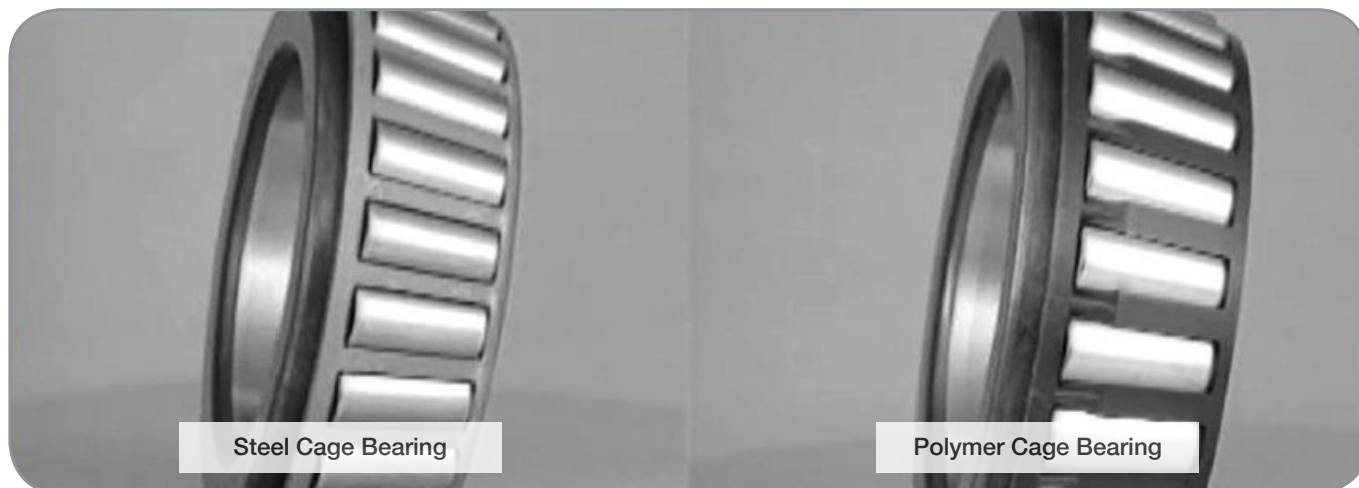


## Genuine BPW Bearings with Polymer Cages



### Background

For many years now **BPW Genuine Bearings** have been constructed with **steel cages** to house the tapered rollers. This will change with the introduction of **BPW Genuine Bearings** with **polymer** (polyamide) cages.

### Bearings with Steel Cages

#### Advantages:

No ageing of the cage by the lubricant, good heat resistance and high forces holding the tapered rollers.

#### Disadvantages:

Constraining forces on the rollers are very high, possible, (1) contamination of the lubricant due to abrasion on the steel cage, (2) of jamming the bearing during a bearing failure, the pulling in process of the cage is critical with regard to wiping of the lubricant into the correct area when the bearing is rotating.

### Bearings with Polymer Cages

#### Advantages:

Low constraining forces on the tapered rollers, high elasticity and dampening behaviour of the polymer cage, better emergency running characteristics and the final form of the roller is not determined by the pulling in process. The shape of the polymer (polyamide) cage is more roller orientated and can provide more grease to the contact area of the rollers and raceway. In poor lubricating conditions the polymer (polyamide) cages have better emergency running characteristics than steel caged bearings.

The advantages of **BPW Genuine Bearings** with the polymer (polyamide) cages outweigh those of the steel cage bearings - giving the end user increased confidence and reliability of the bearings. Polymer (polyamide) cages are constructed of PA66 + 25F (Polyamide 6.6 plus 25% glass fibre reinforced resin - the worldwide standard for quality polymer cage bearings).

#### Victoria (Head office)

1-11 Cherry Lane,  
Laverton North Vic 3026

**Phone** (03) 9267 2444

**Fax** (03) 9369 4826

#### New South Wales

10 Squill Place,  
Arndell Park NSW 2148

**Phone** (02) 8811 7000

**Fax** (02) 8811 7050

#### Queensland

10 Bernoulli Street,  
Darra Qld 4076

**Phone** (07) 3217 0877

**Fax** (07) 3217 0230

#### Western Australia

20 Brennan Way,  
Belmont WA 6104

**Phone** (08) 9479 5822

**Fax** (08) 9479 6922

**1300 651 652**

[info@bpwtranspec.com.au](mailto:info@bpwtranspec.com.au)

[bpwtranspec.com.au](http://bpwtranspec.com.au)